



MCCB h3 x160 TM 3x160A 40kA

HNA160U

Architecture

Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D

Functions

Trip Unit	TM A/F
Concurrently switching N-neutral	no

Compatibility

Compatible with DIN rail mounting	no
-----------------------------------	----

Controls and indicators

Motor drive integrated	no
------------------------	----

Main electrical features

Rated operational voltage Ue	220 / 415 V
Frequency	50/60 Hz

Voltage

Rated insulation voltage	690 V
Rated impulse withstand voltage	8 kV
With under voltage release	no

Electric current

Rated current	160 A
Thermal protection nob setting xIN	0,63 / 0,8 / 1
Rating current 10°C according to IEC 60947	188,5 A
Rating current 150°C according to IEC 60947	185,2 A
Rating current 20°C according to IEC 60947	181,8 A
Rating current 25°C according to IEC 60947	178,3 A
Rating current 30°C according to IEC 60947	174,8 A
Rating current 35°C according to IEC 60947	171,2 A
Rating current 40°C according to IEC 60947	167,5 A
Rating current 45°C according to IEC 60947	163,8 A
Rating current 50°C according to IEC 60947	160 A

Technical Properties

Rating current 55°C according to IEC 60947	156 A
Rating current 60°C according to IEC 60947	152 A
Rating current 65°C according to IEC 60947	147,8 A
Rating current 70°C according to IEC 60947	143,6 A
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	40 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	40 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	40 kA
Rated service breaking capacity Ics under 380V AC according IEC 60947-2	20 kA
Rated service breaking capacity Ics under 400V AC according IEC 60947-2	20 kA
Rated service breaking capacity Ics under 415V AC according IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	40 kA
Range of the thermal adjustment	100 / 125 / 160 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	40 kA

Frequency

Frequency	50 to 60 Hz
-----------	-------------

Power

Power loss per pole at 0.63*In	5,7 W
Power loss per pole at 0.8*In	8,9 W
Total power loss at 0.63*In	17,1 W
Total power loss at 0.8*In	26,7 W
Total power loss under IN	43,8 W
Power loss per pole at In	14,6 W

Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	4000

Dimensions

Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	75 mm
Critical distance switching emission/earthed part bottom	40 mm
Critical distance switching emission/earthed part left	50 mm
Critical distance switching emission/earthed part right	50 mm
Critical distance switching emission/earthed part top	40 mm
Critical distance switching emission/insulated plate	30 mm
Critical distance switching emission/live part	50 mm

Connection

Type of connection	with screw
--------------------	------------

Settings

Range of the magnetic adjustment	1600 A
----------------------------------	--------

Equipment

Can be accessorized	yes
---------------------	-----

Standards

Standard text	IEC 60947-2
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5

Safety

Protection index IP	IP4X
---------------------	------

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m

temperatur

Temperature of calibration	50 °C
----------------------------	-------